### TABLE 4

Page 1 of 1

# NET PRESENT VALUE ANALYSIS (30 YEARS, 7%) (LEACHATE/GROUNDWATER SANITARY SEWER DISPOSAL SCENARIO) NORTH SANITARY LANDFILL DAYTON, OHIO

		,						
Cost Type	Year		Total Cost		Total Cost Per Year	Discount Factor (7%)	Pr	esent Value
Alternative 2a								
Capital Cost	0	\$	22,705,311	\$	22,705,311	1.000	\$	22,705,311
Annual O&M Cost	1-30	\$	24,870,000	\$		12.409	\$	10,287,095
Periodic Cost (5-Year Review)	5	- \$	65,000	5		0.713	\$	46,344
Periodic Cost (5-Year Review)	10	\$	65,000	5		0.508	\$	33,043
Periodic Cost (5-Year Review)	15	\$	65,000	5		0.362	\$	23,559
Periodic Cost (5-Year Review)	20	\$	65,000	5	<u>-</u>	0.258	\$	16,797
Periodic Cost (5-Year Review)	25		65,000	5		0.184	\$	11,976
Periodic Cost (Decommissioning)	30	\$	520,000	S	~~~~	0.131	\$	68,311
Periodic Cost (Remedial Action Report)	30	<u> </u>	130,000	` \$	· · ·	0.131	\$	17,078
. Constant C			48,550,311				15	33,209,514
		•	,,				L	
Alternative 2b								
Capital Cost	0	\$	24,113,757	ς	24,113,757	1.000	\$	24,113,757
Annual O&M Cost	1-30	\$	32,732,400	<del>.</del> 5		12.409	\$	13,539,257
Periodic Cost (5-Year Review)	5	<del>-</del> \$	65,000	<del>-</del> \$		0.713	\$	46,344
Periodic Cost (5-Year Review)	10	\$	65,000	-5		0.508	\$	33,043
Periodic Cost (5-Year Review)	15	<del>-</del>	65,000		65,000	0.362		23,559
Periodic Cost (5-Year Review)	20		65,000	<del>-</del> \$	65,000	0.352	\$	16,797
Periodic Cost (5-Year Review)	25		65,000	<u>\$</u>	65,000	0.184	\$	11,976
Periodic Cost (Decommissioning)	30	<del></del>	715,000	- <del>-</del> \$		0.131	\$	93,927
Periodic Cost (Remedial Action Report)	30	<del></del> \$	130,000	- <del>-</del>		0.131		17,078
renoun cost (nemedia redori report)			58,016,157	<u> </u>	10,000		T \$	37,895,738
		v	00,010,107			•	Щ	07,050,100
Alternative 3a								
Capital Cost	0	\$	17,846,790	ς	17,846,790	1.000	\$	17,846,790
Annual O&M Cost	1-30		25,104,000	- <del>-</del> -		12.409	\$	10,383,886
Periodic Cost (5-Year Review)	5	- \$	65,000	\$		0.713	- <del>-</del> -	46,344
Periodic Cost (5-Year Review)	10	- <del>-</del> -	65,000	<u>\$</u>	65,000	0.508		33,043
Periodic Cost (5-Year Review)	15		65,000	<u> </u>	65,000	0.362	\$	23,559
Periodic Cost (5-Year Review)	20	\$	65,000	-\$	65,000	0.258	<del>-</del> \$	16,797
Periodic Cost (5-Year Review)	25	<u>-</u> -	65,000	<del>-</del> \$	65,000	0.184	<del>-</del> \$	11,976
Periodic Cost (Decommissioning)	30	- 5	520,000	5	520,000	0.131	-\$	68,311
Periodic Cost (Remedial Action Report)	30	<del>-</del> -	130,000	<u> </u>	130,000	0.131	\$	17,078
Tenodic Cost (Remedia Action Report)			43,925,790	_	1.70,000	0.10.1		28,447,784
		3	45,725,170				<u> </u>	20,337,701
Alternative 3b								
Capital Cost	0	\$	19,255,236	\$	19,255,236	1.000	\$	19,255,236
Annual O&M Cost	1-30	\$	32,966,400	\$	1,098,880	12.409	\$	13,636,047
Periodic Cost (5-Year Review)	5	5	65,000	5	65,000	0.713	\$	46,344
Periodic Cost (5-Year Review)	10	\$	65,000	\$	65,000	0.508	\$	33,043
Periodic Cost (5-Year Review)	15	\$	65,000	\$	65,000	0.362	\$	23,559
Periodic Cost (5-Year Review)	20	5	65,000	5	65,000	0.258	\$	16,797
Periodic Cost (5-Year Review)	25	5	65,000	5	65,000	0.184	S	11,976
Periodic Cost (Decommissioning)	30	\$	715,000	5	715,000	0.131	\$	93,927
Periodic Cost (Remedial Action Report)	30	5	130,000	\$	130,000	0.131	5	17,078
		\$	53,391,636				5	33,134,008

### ATTACHMENT A

CITY OF DAYTON'S SCHEDULE OF RATES FOR SEWER SERVICE

Industries



### Water Service Rates

#### Minimum charge per quarte

	RATES FOR WATER SERV	1 <u>11</u>		1. <u>1人相关 7.5% 家门市各区的</u> 预建	
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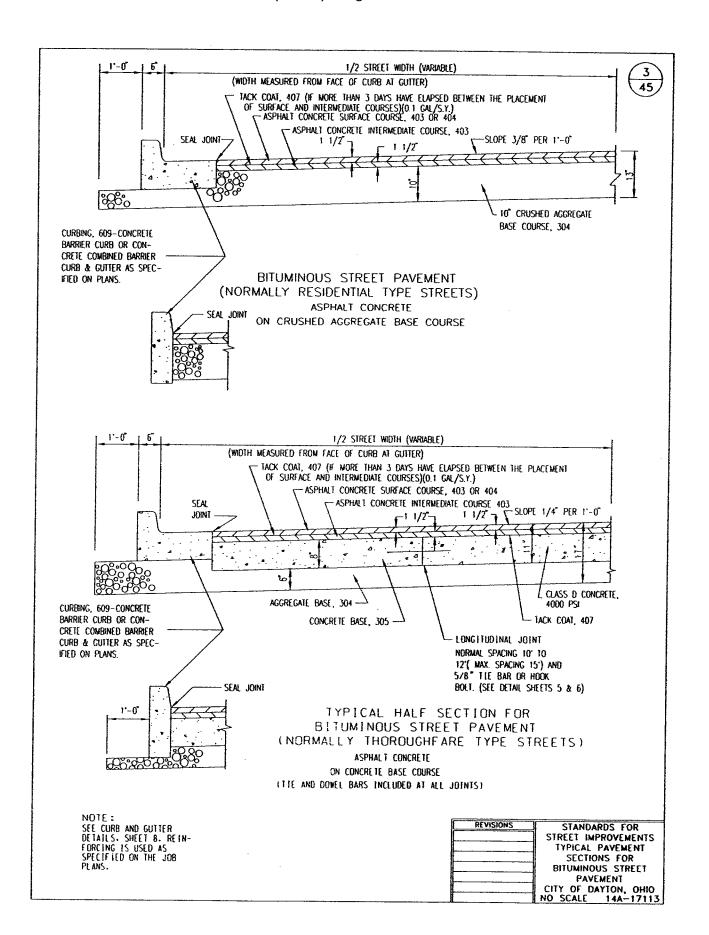
Official Site of The City of Dayton, OH Page 2 of 2

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Businemia zi Chygun Den end (BCO) bi ewest to 150 mg e \$0.00507 Suspended Solids in our training of DM input no meno Special numbering con-50.05000

ATTACHMENT B

CITY OF DAYTON'S STANDARDS FOR STREET IMPROVEMENTS



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3b	NPV	- 1		\$104.722.141)	\$173,756,586	
- 1	Total	\$53,391,636	_		\$247,677,885	
3a	NPV		\$38,052,126	5 \$61,478,816	\$135,976,437 \$97,723,881	
	Total	\$43,925,790(	3 \$47,156,997		\$135,976,437	
2b	VPV	\$37,895,738	\$50.460,529	\$102,458,431	\$166,412,588	
~	Total	\$58,016,157	\$62,301,568	\$218,112,867	\$234,400,108	
2a	VPV	\$33,209,514	\$43,113,	\$59,215,105	\$90,379,862	
~	Total	\$48,550,311	\$52,137,700	\$114,191,886	\$122,698,630	
		Base	Variation	Base	Variation	
		POTW		T&D		

Base Assumptions are 7% NPV Discount Rate and \$O for agency oversight of the RDRA both of which are unrealistic.

Variation Assumptions are 9% oversight costs of the RDRA based on actual experience at the Site over the history of the Site and 2.7% NPV Discount Rate based on U.S. Government data on prevailing prime interest rates and predictions regarding future rates.

# NET PRESENT VALUE ANALYSIS (38 YEARS, 0% AGENCY OVERSIGHT, 7% DISCOUNT RATE) (LEACHATE/GROUNDWATER SANITARY SEWER DISPOSAL SCENARIO) NORTH SANITARY LANDFILL DAYTON, OHIO

Page 1 of 5

Cost Type	Year	T	otal Cost		otal Cost Per Year	Discount Factor (7%)	Pn	esent Value	•
Alternative 2a									
Capital Cost	0	\$	22,705,311	\$	22,705,311	1.000	\$	22,705,311	
Annual O&M Cost	1-30	\$	24,870,900	5	829,000	12.409	\$	10,287,095	
Periodic Cost (5-Year Review)	5	5	65,000	\$	65,000	0.713	. \$	46,344	
Periodic Cost (5-Year Review)	10	\$	65,000	\$	65,000	0.508	\$	33,043	
Periodic Cost (5-Year Review)	15	\$	65,800	\$	65,000	0.362	5	23,559	
Periodic Cost (5-Year Review)	26	\$	65,000	\$	65,000	0,258	\$	16,797	
Periodic Cost (5-Year Review)	25	\$	65,000	S	65,000	0.184	5	11,976	
Periodic Cost (Decommissioning)	30	5	520,000	\$	520,000	0.131	5	68,311	
Periodic Cost (Remedial Action Report)	30	\$	130,000	\$	130,000	0.131	\$	17,078	
		\$	48,550,311				\$	33,209,514	
Alternative 2b									
Capital Cost	0	\$	24,113,757	\$	24,113,757	1.000	\$	24,113,757	
Annual O&M Cost	1-30	\$	32,732,400	5	1,091,080	12.409	\$	13,539,257	
Periodic Cost (5-Year Review)	5	\$	65,000	5	65,000	0.713	5	46,344	
Periodic Cost (5-Year Review)	10	\$	65,000	5	65,000	0.508	\$	33,043	
Periodic Cost (5-Year Review)	15	\$	65,000	\$	65,000	0.362	\$	23,559.	
Periodic Cost (5-Year Review)	20	\$	65,000	\$	65,000	0.258	\$	16,797	
Periodic Cost (5-Year Review)	25	\$	65,000	\$	65,000	0.184	\$	11,976	
Periodic Cost (Decommissioning)	30	5	715,000	5	715,000	0.131	\$	93,927	
Periodic Cost (Remedial Action Report)	30	\$	130,000	5	130,000	0,131	5	17,078	
		\$	58,016,157				\$	37,895,738	l
Alternative 3a									
Capital Cost	0	5	17,846,790	5	17,846,790	1.000	\$	17,846,790	
Annual O&M Cost	1-30	\$	25,104,000	\$	836,800	12.409	\$	10,383,886	
Periodic Cost (5-Year Review)	5	\$	65,000	\$	65,000	0.713	\$	46,344	
Periodic Cost (5-Year Review)	10	\$	65,900	5	65,000	0.508	\$	33,043	
Periodic Cost (5-Year Review)	15	\$	65,000	\$	65,000	0.362	\$	23,559	
Periodic Cost (5-Year Review)	20	5	65,000	\$	65,000	0.258	\$	16,797	
Periodic Cost (5-Year Review)	25	\$	65,000	\$	65,000	0.184	\$	11,976	
Periodic Cost (Decommissioning)	30	\$	520,000	5	520,000	0.131	\$	68,311	
Periodic Cost (Remedial Action Report)	30	5	130,000	\$	130,000	0.131	5	17,078	
		\$	43,925,790				\$	28,447,784	
Alternative 3b									
Capital Cost	0	\$	19,255,236	\$	19,255,236	1.000	\$	19,255,236	
Annual O&M Cost	1-30		32,966,400	\$	1,098,880	12.409	\$	13,636,047	
Periodic Cost (5-Year Review)	5	5	65,000	\$	65,000	0.713	\$	46,344	
Periodic Cost (5-Year Review)	10	5	65,000	\$	65,000	0.508	\$	33,043	
Periodic Cost (5-Year Review)	15	\$	65,000	\$	65,000	0.362	\$	23,559	
Periodic Cost (5-Year Review)	20	\$	65,000	5	65,008	0.258	\$	16,797	
Periodic Cost (5-Year Review)	25	5	.65,000	\$	65,000	0.184	\$	11,976	
Periodic Cost (Decommissioning)	30	<u> </u>	715,000	5	715,000	0.131	5	93,927	
Periodic Cost (Remedial Action Report)	30		130,000	5	130,000	0.137	\$	17,978	
	<del></del>		53,391,636	Ť			\$	33,134,008	ĺ
		-	-,						

**US 00418** 

### NET PRESENT VALUE ANALYSIS (30 YEARS, 9% AGENCY OVERSIGHT, 2.7% DISCOUNT RATE) (LEACHATE/GROUNDWATER SANITARY SEWER DISPOSAL SCENARIO) NORTH SANITARY LANDFILL DAYTON, OHIO

Page 2 of 5

Cost Type	Year		Total Cost		Total Cost Per Year	Discount Factor (2.7%)	p	resent Value
Alternative 2a								
Capital Cost	· <del>0</del>	5	24,449,950	, ,	24,449,950	1.000	•	24,449,950
Annual O&M Cost	1-30		26,712,750			20.383	<u>*</u>	
Periodic Cost (5-Year Review)	5	- 1				0.875	<u> </u>	
Periodic Cost (5-Year Review)	10	1	<del></del>			0.766	- 5	
Periodic Cost (5-Year Review)	15	5		_	<u>_</u>	0.671	<del>-</del>	
Periodic Cost (5-Year Review)	20	5	65,000	5	65,000	0.587		
Periodic Cost (5-Year Review)	25	5	65,000	5		0.514	<u> </u>	33,393
Periodic Cost (Decommissioning)	30	5	520,000	\$		0.450		233,825
Periodic Cost (Remedial Action Report)	30	5	130,000	-5	130,000	0.450	s	58,456
Alternative 2b		\$	52,137,700				5	43,113,469
Capital Cost	O .	\$	25,966,738	5	25,966,738	1.000	\$	25,966,738
Annual O&M Cost	1-30	\$	35,164,830	\$	1,172,161	20.383	\$	23,892,005
Periodic Cost (5-Year Review)	5	\$	65,000	5	65,000	0.875	\$	56,893
Periodic Cost (5-Year Review)	10	5	65,000	\$	65,000	9.766	5	49,798
Periodic Cost (5-Year Review)	15	\$	65,000	\$	65,000	0.671	\$	43,587
Periodic Cost (5-Year Review)	20	\$	65,000	\$	65,000	0.587	\$	38,151
Periodic Cost (5-Year Review)	25	\$	65,000	\$	65,000	0.514	5	33,393
Periodic Cost (Decommissioning)	30	\$	715,000	\$	715,000	0.450	\$	321,509
Periodic Cost (Remedial Action Report)	30	\$	130,000	\$	130,000	0.450	\$	58,456
Alternative 3a		\$	62,301,568				S	50,460,529
Capital Cost	0	5	19,217, <del>69</del> 7	\$	19,217,697	1.000	5	19,217,697
Annual O&M Cost	1-30	5	26,964,300	5	898,810	20.383	\$	18,320,327
Periodic Cost (5-Year Review)	5	\$	65,000	\$	65,000	0.875	\$	56,893
Periodic Cost (5-Year Review)	10	\$	65,000	\$	65,000	0.766	\$	49,798
Periodic Cost (5-Year Review)	15	\$	65,000	\$	65,000	0.671	\$	43,587
Periodic Cost (5-Year Review)	20	\$	65,000	\$	65,000	0.587	\$	38,151
Periodic Cost (5-Year Review)	25	\$	65,000	\$	65,000	0.514	\$	33,393
Periodic Cost (Decommissioning)	30	\$	520,000	\$	520,000	0.450	\$	233,825
Periodic Cost (Remedial Action Report)	30	. \$	130,000	\$	130,000	0.450	\$	58,456
Alternative 3b		\$	47,156,997				\$	38,052,126
Capital Cost	0	5	20,734,485	\$	20,734,485	1.000	\$	20,734,485
Annual O&M Cost	1-30	\$	35,416,380	\$	1,180,546	20.383	\$	24,062,915
Periodic Cost (5-Year Review)	5	\$	65,000	5	65,000	0.875	5	56,893
Periodic Cost (5-Year Review)	10	\$	65,000	\$	65,000	0.766	\$	49,798
Periodic Cost (5-Year Review)	15	\$	65,000	\$	65,000	0.671	5	43,587
Periodic Cost (5-Year Review)	20	\$	65,000	\$	65,000	0.587	5	38,151
Periodic Cost (5-Year Review)	25	\$	65,000	5	65,000	0.514	\$	33,393
Periodic Cost (Decommissioning)	30	\$	715,000	5	715,000	0.450	5	321,509
Periodic Cost (Remedial Action Report)	30	\$	130,000	5	130,000	0.450	s	58,456
		5	57,320,865				\$	45,399,187

# NEI PRESENT VALUE ANALYSIS (30 YEARS, 0% AGENCY OVERSIGHT, 7% DISCOUNT RATE) (LEACHATE/GROUNDWATER T&D SCENARIO) NORTH SANITARY LANDFILL DAYTON, OHIO

Page 3 of 5

Cost Type	Year	1	Fotal Cost	7	otal Cost Per Year	Discount Factor (7%)	Pn	esent Value
Alternative 2a				_		- 000		20.750.026
Capital Cost	0	\$	20,750,826	<u> </u>	20,750,826	1.000	\$	20,750,826
Annual O&M Cost	1-30	\$	92,466,060	5	-, -, -	12.409	<u>\$</u>	38,247,172
Periodic Cost (5-Year Review)	5	\$	65,000	\$	65,000	0.713	- \$	46,344
Periodic Cost (5-Year Review)	10	_\$_	65,000	\$	65,000	0.508	\$	33,043
Periodic Cost (5-Year Review)	15	\$	65,000	\$	65,000	0.362	\$	23,559
Periodic Cost (5-Year Review)	20	\$	65,000	\$	65,000	0.258	\$	16,797
Periodic Cost (5-Year Review)	25	5	65,000	5	65,000	0.184	\$	11,976
Periodic Cost (Decommissioning)	30	\$	520,000	\$	520,000	0.131	<u>s</u>	68,311
Periodic Cost (Remedial Action Report)	30	\$	130,000	\$	130,000	0.131	5	17,678
		5	114,191,886				5	59,215,105
Alternative 2b								
Capital Cost	0	\$	21,284,697	5	21,284,697	1.000	5	21,284,697
Annual O&M Cost	1-30	5	195,658,170	\$	6,521,939	12.409		80,931,010
Periodic Cost (5-Year Review)	5	5	65,000	\$	65,000	0.713	5	46,344
Periodic Cost (5-Year Review)	10	\$	65,000	\$	65,000	0.508	\$	33,043
Periodic Cost (5-Year Review)	15	5	65,000	\$	65,000	0.362	S	23,559
Periodic Cost (5-Year Review)	20	5	65,000	\$	65,000	0.258	\$	16,797
Periodic Cost (5-Year Review)	25	5	65,000	\$	65,000	0.184	\$	11,976
Periodic Cost (Decommissioning)	30	\$	715,000	\$	715,000	0.131	\$	93,927
Periodic Cost (Remedial Action Report)	30	\$	130,000	\$	130,000	0.131	5	17,078
retain Cost (temedia) it bon 12 porty		5	218,112,867				5	102,458,431
Alternative 3a			, ,					
Capital Cost	O	\$	15,892,305	5	15,892,305	1.000	\$	15,892,305
Annual O&M Cost	1-30	5		5	3,656,157	12.409	\$	45,369,403
Periodic Cost (5-Year Review)	5		65,000	5	65,000	0.713	\$	46,344
	10	\$	65,000	S	65,000	0.508	\$	33,043
Periodic Cost (5-Year Review)	15	- \$	65,000	\$	65,000	0.362	5	23,559
Periodic Cost (5-Year Review)	20	\$	65,000	S	65,000	0.258	5	16,797
Periodic Cost (5-Year Review)	25	<u> </u>	65,000	5	65,000	0.184	\$	11,976
Periodic Cost (5-Year Review)	30	Š		5	520,000	0.137	5	68,311
Periodic Cost (Decommissioning)	30	\$		5	130,000	0.131	\$	17,078
Periodic Cost (Remedial Action Report)			126,552,015				5	61,478,816
Alternative 3b								16 106 176
Capital Cost	0	\$		_	16,426,176		<u> </u>	16,426,176
Annual O&M Cost	1-30	\$	212,876,820			12.409	\$	88,053,241
Periodic Cost (5-Year Review)	5	\$	65,000	5		0.713		46,344
Periodic Cost (5-Year Review)	10	\$	65,000	5				33,043
Periodic Cost (5-Year Review)	15	5	65,000	5			5	23,559
Periodic Cost (5-Year Review)	20	\$	65,000	_3			- \$	16,797
Periodic Cost (5-Year Review)	25	\$	65,000	5			- 5	11,976
Periodic Cost (Decommissioning)	30	\$	715,000	9	715,000	6,131	5	93,927
Periodic Cost (Remedial Action Report)	30	5	130,000	9	130,000	0.131	- 5	17,078
		5	230,472,996				5	104,722,141

CEA HEW Colombians

#### NET PRESENT VALUE ANALYSIS (30 YEARS, 9% AGENCY OVERSIGHT, 2.7% DISCOUNT RATE) (LEACHATE/GROUNDWATER T&D SCENARIO) NORTH SANITARY LANDFILL DAYTON, OHIO

Page 4 of 5

					•			
				Ŧ	otal Cost	Discount		
Cost Type	Year	7	Fotal Cost		Per Year	Factor (2.7%)	Pı	esent Value
Alternative 2a								
Capital Coet	. 0	5	22,345,120	s	22,345,120	1.000	\$	22,345,120
Annual O&M Cost	1-30	5	99,378,510	5	3,312,617	20.383	5	67,520,640
Periodic Cost (5-Year Review)	5	<u> </u>	65,000	5	65,000	0.875	\$	56,893
Periodic Cost (5-Year Review)	10	5	65,000	5	65,000	0.766	\$	49,798
Periodic Cost (5-Year Review)	15	<u> </u>	65,000	5	65,000	0.671	\$	43,587
Periodic Cost (5-Year Review)	20	\$	65,000	s	65,000	0.587	5	38,151
Periodic Cost (5-Year Review)	25	\$	65,000	\$	65,000	0.514	5	33,393
Periodic Cost (Decommissioning)	30	\$	520,000	5	520,000	0.450	. \$	233,825
Periodic Cost (Remedial Action Report)	30	<u> </u>	130,000	\$	130,000	0.450	\$	58,456
Temora Cost (remedia radios la porty		<u> </u>	122,698,630	<u> </u>			15	90,379,862
Alternative 2b		•	,				_	
	0	\$	22,920,658	æ	22,920,058	1.000	5	22,920,058
Capital Cost	1-30	5	210,310,050	<del>,</del>	7,010,335	20.383		142,890,744
Annual O&M Cost	5	- 5	65,000	5	65,090	0.875	-\$	56,893
Periodic Cost (5-Year Review)	10		65,000	5	65,000	0.766	\$	49,798
Periodic Cost (5-Year Review)	15	5	65,000	<del>-</del> \$	65,960	0.671		43,587
Periodic Cost (5-Year Review)	20	<u> </u>	65,000	<u>,</u>	65,000	0.587	\$	38,151
Periodic Cost (5-Year Review)	25	<u> </u>	65,000	•	65,000	0.514	- 5	33,393
Periodic Cost (5-Year Review)	30		715,000	\$	715,000	0.450	<u>,</u>	321,509
Periodic Cost (Decommissioning)	30	- \$	130,000	-	130,000	0.450	-\$	58,456
Periodic Cost (Remedial Action Report)	30		234,400,108		150,000	0.450	5	166,412,588
Alternative 3a		3	234,400,100					100/112/000
Capital Cost	0	5	17,112,867	\$	17,112,867	1.000	\$	17,112,867
Annual O&M Cost	1-30	5	117,888,570	\$	3,929,619	20.383	\$	80,096,911
Periodic Cost (5-Year Review)	5	5	65,000	s	65,000	0.875	\$	56,893
Periodic Cost (5-Year Review)	10	5	65,000	\$	65,000	0.766	\$	49,798
Periodic Cost (5-Year Review)	15	5	65,000	\$	65,000	0.671	\$	43,587
Periodic Cost (5-Year Review)	20	\$	65,000	\$	65,000	0.587	\$	38,151
Periodic Cost (5-Year Review)	25	\$	65,000	5	65,000	0,514	\$	33,393
Periodic Cost (Decommissioning)	30	5	520,000	\$	520,000	0.450	\$	233,825
Periodic Cost (Remedial Action Report)	30	5	130,000	5	130,000	0.450	5	58,456
		\$	135,976,A37	_			\$.	97,723,881
Alternative 3b		•	,				٠	
Capital Cost	0	s	17,687,805	5	17,687,805	1.000	\$	17,687,805
Annual O&M Cost	1-30	5	228,820,080	\$	7,627,336	20.383	\$	155,466,995
Periodic Cost (5-Year Review)	5	- 5	65,000	\$	65,000	0.875	\$	56,893
Periodic Cost (5-Year Review)	10	5	65,000	\$	65,000	0.766	\$	49,798
Periodic Cost (5-Year Review)	15	-5	65,000	5	65,000	0.671	\$	43,587
Periodic Cost (5-Year Review)	20	- 5	65,000		65,000	0.587	5	38,151
Periodic Cost (5-Year Review)	25	\$	65,000	5	65,000	0.514	\$	33,393
Periodic Cost (Decommissioning)	30	-\$	715,000	\$	715,000	0.450	\$	321,509
			130,000	5	130,000	0.450	\$	58,456
Periodic Cost (Remedial Action Report)	30	\$	130,000					

#### SUMMARY OF ESTIMATED CAPITAL, ANNUAL OM, AND PERIODIC COSTS (LEACHATE/GROUNDWATER SANITARY SEWER DISPOSAL SCENARIO, 0% AGENCY OVERSHCHI) NORTH SANITARY LANDHIL DAYTON, OHIO

Page 1 of 4

	Alternative No.	2 <i>a</i>	2 <i>b</i>	3e	36
	Disposal Area 1, 2, 3, 5 Cap.		SW Cap	Alternate SW Cap	Alternate SW Cap
<del></del>	Groundwater.	Monitoring	Extraction	Monitoring	Extraction
Environmental Media	Process Options				
CAPITAL COSTS	;				
Waste and	Disposal Area 4 Waste Relocation	\$1,537,080	\$1,537,080	\$1,537,080	\$1,537,080
OPBWA Soll	Disposal Area 4 Post-Excavation Sampling	\$25,000	\$25,000	\$25,800	\$25,000
-	OPBWA Waste and Soil Consolidation	\$7,650	\$7,650	\$7,650	\$7,650
	OPBWA Post-Excavation Sampling	\$2,000	\$2,000	\$2,000	\$2,000
	Cap Disposal Arens 1, 2, 3, 5	\$9,840,217	\$9,840,217	\$6,645,923	\$6,645,923
!	Stormwater Management Facilities	\$250,000	\$250,000	\$250,090	\$250,000
	Valleycrest Drive Re-Opening	\$180,750	\$180,750	\$180,750	\$180,750
NAPL	Recovery Systems at NSL-54L and NSL-55L	\$25,000	\$25,000	\$25,000	\$25,000
Leachate	Extraction System	\$794,750	\$794,750	\$794,750	\$794,750
	Pretreatment System	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,090
	Sanitary Sewer Tie-In and Capacity Sensor	\$35,000	\$35,000 .	\$35,000	\$35,000
Landfill Gas	Collection and Monitoring System	\$764,000	\$764,000	\$764,000	\$764,000
<del></del>	Energy Recovery Devices	not included	not included	not included	not included
Groundwater	Monitoring Network Expansion	\$150,000	\$150,000	\$150,000	\$150,000
	Extraction System	not included	\$276,000	not included	\$276,000
	Pretreatment System (incremental to leachate)	not included	\$650,000	not included	\$650,900
	Subtotal Capital Cost	\$14,911,447	\$15,837,447	<b>\$11,717,153</b>	\$12,643,153
	Contingency (30%):	\$4,473,434	\$4,751,234	\$3,515,146	\$3,792,946
	Subtotal:	\$19,384,881	\$20,588,681	\$15,232,299	\$16,436,099
Professi	onal/Technical Services - Project Management (5%):	\$969,244	\$1,029,434	<b>\$761</b> ,615	\$821,805
Profi	essional/Technical Services - Remedial Design (6%):	\$1,163,093	\$1,235,321	\$913,938	\$986,166
	Fechnical Services - Construction Management (6%):	\$1,163,093	\$1,235,321	\$913,938	\$986,166
- '	Institutional Controls;	\$25,000	\$25,000	\$25,860	\$25,000
	Total Capital Cost:	522,705,311	\$24,113,757	\$25,000 \$17,846,790	\$19,255,236
NNUAL OSM C	OSIS ,	\$25,000	\$25,000	\$25,000	\$25,000
	Stormwater Management Facilities	\$25,000	\$25,000	\$25,000	\$25,000
IAPL.	Monitoring/Removal	\$5,000	\$5,000	. \$5,000	\$5,000
eachate	Extraction System	\$50,000	\$50,000	\$50,000	\$50,000
	Pretreatment System	\$150,000	\$150,000	\$150,000	\$150,000
	Off-Site Disposal	\$35,000	\$35,000	\$40,000	\$40,000
andfill Cas	Collection and Flaring	\$50,000	\$50,000	\$50,090	\$50,000
	Monitoring	\$25,000	\$25,000	\$25,000	\$25,000
conndwater	Extraction System	not included	\$50,000	not included	\$50,000
	Pretreatment System (incremental to leachate)	not included	\$75,000	not included	\$75,000
	Off-Site Disposal	not included	\$43,000	not included	\$43,000
	Monitoring	\$150,000	\$150,000	\$150,000	\$150,000
	Monitoring Well Maintenance	\$10,000	\$10,000	\$10,000	\$10,000
	Subtotal Annual O&M Cost:	\$525,000	\$693,090	\$530,000	\$698,000
	Contingency (30%):	\$157,500	\$207,900	\$159,000	\$209,400
	Subtotal:	\$682,500	\$900,900	\$689,000	5907,400
Professio	nal/Technical Services - Project Management (5%):	\$34,125	\$45,045	\$34.450	•
Professional /	Fechnical Services - O&M Technical Support (15%):	\$102,375	•		\$45,370
, 101033,0141,	Institutional Controls:		\$135,135	\$103,350	\$136,110
		\$10,000	\$10,000	\$10,080	\$10,000
	Total Annual O&M Cost:	\$829,000	\$1,991,080	\$836,800	51,098,880
ERIODIC COSTS					
eachate	Extraction/Pretreatment System Decommissioning	\$150,000	\$150,000	\$150,000	\$150,000
undfill Gas	Collection System Decommissioning	\$100,000	\$100,000	\$100,009	\$100,000
	Monitoring Network Decommissioning	\$50,000	\$50,000	\$50,000	\$50,000
oundwater	Extraction System Decommissioning	not included	\$150,000	not included	\$150,000
	Monitoring Network Decommissioning	\$100,800	\$100,000	\$100,000	\$100,000
	Subtotal Decommissioning Cost	\$400,000	\$550,000	\$400,000	\$550,000
	Contingency (30%):	\$120,000	\$165,000	\$120,000	
	Subtotal	\$520,000	\$715,000		\$165,000
urlonas	5-Year Reviews	\$65,000		\$520,000	\$715,000
<del></del>	Remedial Action Report		\$65,080	\$65,000	\$65,000
<u> </u>	Achievan regon report	\$130,000	\$130,000	\$130,000	\$130,000

#### Notes

Decommissioning and Remedial Action Report costs occur at Year 30. 5-Year review costs occur at Years 5, 10, 15, 20, and 25. Includes 30% contingency.

09-50026-mg Doc 9935-6 Filed 03/28/11 Entered 03/28/11 14:52:32 Exhibit B (Part 5) Pg 13 of 14

## SUMMARY OF ESTIMATED CAPITAL, ANNUAL ONA, AND PERIODIC COSTS (LEACHATE/CROUNDWATER SANITARY SEWER DISPOSAL SCENARIO, 9% AGENCY OVERSIGHT) NORTH SANITARY LANDFILL DAYTON, OHIO

Page 2 of 4

	Alternative No.:	Za	25	32	35
	Disposal Area 1, 2, 3, 5 Cap:	SW Cap	SW Cap	Alternate SW Cap	Alternate SW Cap
	Groundwater:	Monitoring	Extraction	Monitoring	Extraction
Environmental					
Media	Process Options		i	•	
	2 Poccas Options	L	<u> </u>	l	L
CAPITAL COSTS	•				
	In 14 Att - n > -	C7 [77 000	#4 F97 000	E1 577 000	\$1,537,080
Waste and	Disposal Area 4 Waste Relocation	\$1,537,080	\$1,537,080	\$1,537,080	
OPBWA Soli	Disposal Area 4 Post-Excavation Sampling	\$25,000	\$25,000	\$25,000	\$25,000
	OPBWA Waste and Soil Consolidation	\$7,650	\$7,650	\$7,650	\$7,650
i .	OPBWA Post-Excavation Sampling	\$2,009	\$2,000	\$2,000	\$2,000
	Cap Disposal Areas 1, 2, 3, 5	\$9,840,217	\$9,840,217	\$6,645,923	\$6,645,923
	Stormwater Management Facilities	\$250,000	\$250,000	\$250,000	\$250,000
·	Valleycrest Drive Re-Opening	\$180,750	\$189,750	\$180,750	\$180,750
NAPL	Recovery Systems at NSL-54L and NSL-55L	\$25,800	\$25,000	\$25,000	\$25,000
Leachate	Extraction System	\$794,750	\$794,750	\$794,750	\$794,750
1	Pretreatment System	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000
	Sanitary Sewer Tie-In and Capacity Sensor	\$35,000	\$35,000	\$35,000	\$35,000
Landfill Gas	Collection and Monitoring System	5764,000	\$764,000	\$764,000	\$764,000
ì	Energy Recovery Devices	not included	not included	not included	not included
Groundwatez	Monitoring Network Expansion	\$150,000	\$150,000	\$150,000	\$150,000
	Extraction System	not included	\$276,000	not included	\$276,000
l	Pretreatment System (incremental to leachate)	not included	\$650,000	not included	\$650,000
<b></b>	Subtotal Capital Cost	\$14,911,447	\$15,837,447	\$11,717,153	\$12,643,153
	· · · · · · · · · · · · · · · · · · ·		-		
	Contingency (30%):	\$4,473,434	\$4,751,234	\$3,515,146	\$3,792,946
	Subtotal:	\$19,384,881	\$20,588,681	\$15,232,299	\$16,436,099
Professi	onal/Technical Services - Project Management (5%):	\$969,244	\$1,029,434	\$761,615	\$821,805
Profe	essional/Technical Services - Remedial Design (6%):	\$1,163,093	\$1,235,321	\$913,938	\$986,166
	Fechnical Services - Construction Management (6%):	\$1,163,093	\$1,235,321	\$913,938	\$986,166
					1000
		COF 000			FOE 000
	Institutional Controls:	\$25,000	\$25,000	\$25,000	\$25,000
	Total Capital Cost:	\$24 <i>,</i> 449,950	\$25,966,738	<b>\$19,217,697</b>	<b>\$20,734,485</b>
ANNUAL OSM C	OSTS				
Waste	Cap	\$25,000	\$25,000	\$25,000	\$25,000
	Stormwater Management Facilities	\$25,000	\$25,000	\$25,000	\$25,000
NAPI.	Monitoring/Removal	\$5,600	\$5,000	\$5,000	\$5,000
Leachate	Extraction System	\$50,000	\$50,090	\$50,000	\$50,000
		<del></del>			
•	Pretreatment System	\$150,000	<del></del>	\$150,000	
	Pretreatment System Off Site Disposal	\$150,000	\$150,000	\$150,000 \$40,000	\$150,000
1000	Off-Site Disposal	\$35,000	\$150,000 \$35,000	\$40,000	\$150,000 \$40,000
Landfill Gas	Off-Site Disposal Collection and Flaring	\$35,000 \$50,000	\$150,000 \$35,000 \$50,000	\$40,000 \$50,000	\$150,000 \$40,000 \$50,000
Landfill Gas	Off-Site Disposal	\$35,000	\$150,000 \$35,000	\$40,000	\$150,000 \$40,000
Eandfill Gas Groundwater	Off-Site Disposal Collection and Flaring	\$35,000 \$50,000	\$150,000 \$35,000 \$50,000	\$40,000 \$50,000	\$150,000 \$40,000 \$50,000
	Off-Site Disposal Collection and Flaring Monitoring Extraction System	\$35,000 \$50,000 \$25,000	\$150,000 \$35,000 \$50,000 \$25,000	\$40,000 \$50,000 \$25,000	\$150,000 \$40,000 \$50,000 \$25,000
	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate)	\$35,000 \$50,000 \$25,000 not included not included	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000	\$40,000 \$50,000 \$25,000 not included not included	\$150,000 \$40,000 \$50,000 \$25,000 \$50,000 \$75,000
	Off-Site Disposal Collection and Flaring Monitoring Extraction System Preheatment System (incremental to leachate) Off-Site Disposal	\$35,000 \$50,000 \$25,000 not included not included not included	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000	\$49,000 \$50,000 \$25,000 not included not included not included	\$150,000 \$40,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000
	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring	\$35,000 \$50,000 \$25,000 not included not included not included \$150,000	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000	\$40,000 \$50,000 \$25,000 not included not included not included \$150,000	\$150,000 \$40,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000
	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Monitoring	\$35,000 \$50,000 \$25,000 not included not included not included \$150,000 \$10,000	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000	\$40,000 \$50,000 \$25,000 not included not included not included \$150,000 \$10,000	\$150,000 \$40,000 \$50,000 \$25,000 \$50,000 \$75,000 \$75,000 \$150,000
	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost	\$35,000 \$50,000 \$25,000 not included not included not included \$150,000 \$10,000	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000	\$40,000 \$50,000 \$25,000 not included not included not included \$150,000 \$10,000	\$150,000 \$40,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$150,000
	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost. Contingency (30%):	\$35,000 \$58,000 \$25,000 not included not included not included \$150,000 \$10,000 \$525,000 \$157,500	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$693,000 \$207,900	\$40,000 \$50,000 \$25,600 not included not included \$150,600 \$10,000 \$530,000 \$159,000	\$150,000 \$40,000 \$50,000 \$25,000 \$25,000 \$75,000 \$43,000 \$150,000 \$16,000 \$698,000 \$209,400
	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost	\$35,000 \$50,000 \$25,000 not included not included not included \$150,000 \$10,000	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000	\$40,000 \$50,000 \$25,000 not included not included not included \$150,000 \$10,000	\$150,000 \$40,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$150,000
Groundwater	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost. Contingency (30%):	\$35,000 \$58,000 \$25,000 not included not included not included \$150,000 \$10,000 \$525,000 \$157,500	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$693,000 \$207,900	\$40,000 \$50,000 \$25,600 not included not included \$150,600 \$10,000 \$530,000 \$159,000	\$150,000 \$40,000 \$50,000 \$25,000 \$25,000 \$75,000 \$43,000 \$150,000 \$16,000 \$698,080 \$209,480
Groundwater Professio	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Well Maintenance Subtotal Annual O&M Cost. Contingency (30%): Subtotal: anal/Technical Services - Project Management (5%):	\$35,000 \$56,000 \$25,000 not included not included not included \$150,000 \$10,000 \$525,000 \$157,500 \$682,500 \$34,125	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$693,000 \$207,900 \$900,900	\$40,000 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$330,000 \$159,000	\$150,000 \$40,000 \$50,000 \$25,000 \$56,000 \$75,000 \$150,000 \$150,000 \$698,000 \$209,400
Groundwater Professio	Off-Site Disposal  Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate)  Off-Site Disposal  Monitoring Monitoring Well Maintenance  Subtotal Annual O&M Cost.  Contingency (30%):  Subtotal:  anal/Technical Services - Project Management (5%):  Technical Services - O&M Technical Support (15%):	\$35,000 \$56,000 \$25,000 not included not included not included \$150,000 \$10,000 \$525,000 \$157,500 \$682,500	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$693,000 \$207,900 \$900,900 \$45,045 \$135,135	\$40,000 \$50,000 \$25,000 not included not included sit50,000 \$10,000 \$30,000 \$159,000 \$4,450	\$150,000 \$40,000 \$50,000 \$25,000 \$50,000 \$75,000 \$150,000 \$150,000 \$10,000 \$698,000 \$209,440 \$907,400 \$45,370 \$136,110
Groundwater Professio	Off-Site Disposal  Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate)  Off-Site Disposal  Monitoring Monitoring Well Maintenance  Subtotal Annual O&M Cost.  Contingency (30%).  Subtotal  Subtotal  Subtotal  Subtotal  Fechnical Services - Project Management (5%).  Technical Services - O&M Technical Support (15%).	\$35,000 \$56,000 \$25,000 not included not included \$150,000 \$10,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$207,900 \$900,900 \$43,000	\$40,000 \$50,000 \$25,000 not included not included s150,000 \$10,000 \$530,000 \$159,000 \$689,000 \$34,450 \$103,350	\$150,000 \$40,000 \$50,000 \$50,000 \$55,000 \$55,000 \$150,000 \$150,000 \$150,000 \$209,400 \$209,400 \$45,370 \$136,110
Groundwater Professio	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost Contingency (30%): Subtotal: onal/Technical Services - Project Management (5%): Technical Services - O&M Technical Support (15%): Institutional Controls:	\$35,000 \$56,000 \$25,000 not included not included si50,000 \$150,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$207,900 \$900,900 \$45,045 \$135,135	\$40,000 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$530,000 \$530,000 \$499,000 \$499,000 \$34,450 \$103,350	\$150,000 \$40,000 \$50,000 \$25,000 \$25,000 \$75,000 \$150,000 \$150,000 \$150,000 \$190,000 \$45,300 \$209,400 \$209,400 \$45,370 \$13,6110
Groundwater Professio	Off-Site Disposal  Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate)  Off-Site Disposal  Monitoring Monitoring Well Maintenance  Subtotal Annual O&M Cost.  Contingency (30%).  Subtotal  Subtotal  Subtotal  Subtotal  Fechnical Services - Project Management (5%).  Technical Services - O&M Technical Support (15%).	\$35,000 \$56,000 \$25,000 not included not included \$150,000 \$10,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$207,900 \$900,900 \$43,000	\$40,000 \$50,000 \$25,000 not included not included s150,000 \$10,000 \$530,000 \$159,000 \$689,000 \$34,450 \$103,350	\$150,000 \$40,000 \$50,000 \$50,000 \$55,000 \$75,000 \$150,000 \$150,000 \$150,000 \$209,400 \$209,400 \$45,370 \$136,110
Groundwater Professio	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost Contingency (30%): Subtotal: onal/Technical Services - Project Management (5%): Technical Services - O&M Technical Support (15%): Institutional Controls:	\$35,000 \$56,000 \$25,000 not included not included si50,000 \$150,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$207,900 \$900,900 \$45,045 \$135,135	\$40,000 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$530,000 \$530,000 \$499,000 \$499,000 \$34,450 \$103,350	\$150,000 \$40,000 \$50,000 \$25,000 \$25,000 \$75,000 \$150,000 \$150,000 \$150,000 \$190,000 \$45,300 \$209,400 \$209,400 \$45,370 \$13,6110
Groundwater Professional/	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost. Contingency (30%): Subtotal: onal/Technical Services - Project Management (5%): Technical Services - O&M Technical Support (15%): Institutional Controls Total Annual O&M Cost:	\$35,000 \$56,000 \$25,000 not included not included si50,000 \$150,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$207,900 \$900,900 \$45,045 \$135,135	\$40,000 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$530,000 \$530,000 \$499,000 \$499,000 \$34,450 \$103,350	\$150,000 \$40,000 \$50,000 \$25,000 \$25,000 \$75,000 \$150,000 \$150,000 \$150,000 \$190,000 \$45,300 \$209,400 \$209,400 \$45,370 \$13,6110
Groundwater  Professional/	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Well Maintenance Subtotal Annual O&M Cost. Contingency (30%): Subtotal: anal/Technical Services - Project Management (5%): Technical Services - O&M Technical Support (15%): Institutional Controls: Total Annual O&M Cost.	\$35,000 \$56,000 \$25,000 not included not included not firchided \$150,000 \$10,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375	\$150,000 \$35,000 \$50,000 \$50,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$207,900 \$900,900 \$45,045 \$135,135	\$40,000 \$50,000 \$25,000 not included not included s150,000 \$10,000 \$30,000 \$159,000 \$44,50 \$103,350	\$150,000 \$40,000 \$50,000 \$55,000 \$55,000 \$75,000 \$43,000 \$150,000 \$10,000 \$698,000 \$209,400 \$907,400 \$45,370 \$136,110
Groundwater  Professional/ PERIODIC COSTS	Off-Site Disposal  Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Well Maintenance Subtotal Annual O&M Cost. Contingency (30%): Subtotal: onal/Technical Services - Project Management (5%): Technical Services - O&M Technical Support (15%): Institutional Controls: Total Annual O&M Cost.  (2)  Extraction/Pretreatment System Decommissioning	\$35,000 \$50,000 \$25,000 not included not included not included \$150,000 \$10,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$207,900 \$900,900 \$45,045 \$135,135	\$40,000 \$50,000 \$25,000 not included not included s150,000 \$10,000 \$530,000 \$159,000 \$689,000 \$34,450 \$103,350	\$150,000 \$40,000 \$50,000 \$50,000 \$55,000 \$75,000 \$150,000 \$150,000 \$150,000 \$209,400 \$209,400 \$45,370 \$136,110
Groundwater  Professional/	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost. Contingency (30%): Subtotal: onal/Technical Services - Project Management (5%): Technical Services - O&M Technical Support (15%): Institutional Controls: Total Annual O&M Cost:  (Extraction/Pretreatment System Decommissioning Collection System Decommissioning	\$35,000 \$56,000 \$25,000 not included not included s150,000 \$10,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375 \$10,000 \$990,425	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$207,900 \$900,900 \$45,045 \$135,135 \$10,000 \$1,172,161	\$40,000 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$530,000 \$530,000 \$489,000 \$34,450 \$103,350 \$100,000 \$898,810	\$150,000 \$40,000 \$50,000 \$25,000 \$25,000 \$75,000 \$150,000 \$150,000 \$150,000 \$209,400 \$907,400 \$45,370 \$136,110 \$10,000 \$1,180,546
Professional/ Prefessional/ PERIODIC COSTS Leachaite Landfill Cas	Off-Site Disposal  Collection and Flaring Monitoring Extraction System Freheatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Well Maintenance  Sublotal Annual O&M Cost: Contingency (30%): Subtotal: onal/Technical Services - Project Management (5%): Technical Services - O&M Technical Support (15%): Institutional Controls: Total Annual O&M Cost:  1 Extraction/Pretreatment System Decommissioning Collection System Decommissioning Monitoring Network Decommissioning	\$35,000 \$56,000 \$25,000 not included not included not included \$150,000 \$10,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375 \$10,000 \$99,425	\$150,000 \$35,000 \$50,000 \$25,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$110,000 \$5093,000 \$207,900 \$900,900 \$45,045 \$135,135 \$10,000 \$1,172,161	\$40,000 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$330,000 \$159,000 \$54,450 \$103,350 \$10,000 \$898,810	\$150,000 \$40,000 \$50,000 \$25,000 \$25,000 \$75,000 \$150,000 \$110,000 \$698,000 \$209,400 \$45,370 \$136,110 \$31,110,000 \$1,180,546
Professional/ Prefessional/ PERIODIC COSTS Leachaite Landfill Cas	Off-Site Disposal  Collection and Flaring Monitoring Extraction System Prefreatment System (incremental to leachate)  Off-Site Disposal Monitoring  Extraction/Pretreatment System Decommissioning Collection System Decommissioning Monitoring Methods  Extraction System Decommissioning	\$35,000 \$56,000 \$25,000 not included not included not included s150,000 \$10,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375 \$10,000 \$890,425	\$150,000 \$35,000 \$50,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$207,900 \$900,900 \$45,045 \$135,135 \$10,000 \$1,172,161	\$40,000 \$50,000 \$55,000 not included not included s150,000 \$10,000 \$530,000 \$199,000 \$689,000 \$34,450 \$103,350 \$510,000 \$898,810 \$150,000 \$100,000	\$150,000 \$40,000 \$50,000 \$50,000 \$55,000 \$75,000 \$150,000 \$150,000 \$698,000 \$209,400 \$45,370 \$136,110 \$10,000 \$1,180,546
Professional/ Prefessional/ PERIODIC COSTS Leachaite Landfill Cas	Off-Site Disposal  Collection and Flaring Monitoring Extraction System Freheatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Well Maintenance  Sublotal Annual O&M Cost: Contingency (30%): Subtotal: onal/Technical Services - Project Management (5%): Technical Services - O&M Technical Support (15%): Institutional Controls: Total Annual O&M Cost:  1 Extraction/Pretreatment System Decommissioning Collection System Decommissioning Monitoring Network Decommissioning	\$35,000 \$56,000 \$25,000 not included not included not included \$150,000 \$10,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375 \$10,000 \$99,425	\$150,000 \$35,000 \$50,000 \$25,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$110,000 \$5093,000 \$207,900 \$900,900 \$45,045 \$135,135 \$10,000 \$1,172,161	\$40,000 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$330,000 \$159,000 \$54,450 \$103,350 \$10,000 \$898,810	\$150,000 \$40,000 \$50,000 \$25,000 \$25,000 \$75,000 \$150,000 \$110,000 \$698,000 \$209,400 \$45,370 \$136,110 \$31,110,000 \$1,180,546
Professional/ Prefessional/ PERIODIC COSTS Leachaite Landfill Cas	Off-Site Disposal  Collection and Flaring Monitoring Extraction System Prefreatment System (incremental to leachate)  Off-Site Disposal Monitoring Monitoring Well Maintenance  Subtotal Annual O&M Cost.  Contingency (30%): Subtotal: anal/Technical Services - Project Management (5%): Technical Services - O&M Technical Support (15%):  Institutional Controls: Total Annual O&M Cost:  (Extraction/Prefreatment System Decommissioning Collection System Decommissioning Extraction System Decommissioning Extraction System Decommissioning Extraction System Decommissioning Extraction System Decommissioning Monitoring Network Decommissioning Monitoring Network Decommissioning	\$35,000 \$56,000 \$56,000 \$25,000 not included not included not included \$150,000 \$510,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375 \$10,000 \$899,425 \$110,000 \$899,425	\$150,000 \$35,000 \$50,000 \$50,000 \$50,000 \$50,000 \$75,000 \$43,000 \$10,000 \$10,000 \$515,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000	\$40,000 \$50,000 \$55,000 not included not included s150,000 \$10,000 \$530,000 \$199,000 \$689,000 \$34,450 \$103,350 \$510,000 \$898,810 \$150,000 \$100,000	\$150,000 \$40,000 \$50,000 \$50,000 \$55,000 \$75,000 \$150,000 \$150,000 \$698,000 \$209,400 \$45,370 \$136,110 \$10,000 \$1,180,546
Professional/ Prefessional/ PERIODIC COSTS Leachaite Landfill Cas	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Network Decommissioning Extraction System Decommissioning Extraction System Decommissioning Monitoring Monitoring Network Decommissioning Subtotal Decommissioning Subtotal Decommissioning Subtotal Decommissioning Subtotal Decommissioning	\$35,000 \$56,000 \$55,000 solvent included not included not included not included si50,000 \$510,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375 \$10,000 \$890,425 \$150,000 \$100,000 \$500,000 solvent included 5100,000 \$400,000	\$150,000 \$35,000 \$50,000 \$50,000 \$50,000 \$50,000 \$75,000 \$43,000 \$10,000 \$10,000 \$43,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$100,000 \$100,000 \$150,000	\$40,000 \$50,000 \$55,000 not included not included not included \$150,000 \$10,000 \$530,000 \$159,000 \$34,450 \$103,350 \$10,000 \$898,810 \$100,000 \$50,000 \$100,000 \$50,000 \$100,000 \$50,000 \$50,000 \$50,000	\$150,000 \$40,000 \$50,000 \$55,000 \$55,000 \$75,000 \$150,000 \$150,000 \$150,000 \$45,370 \$136,110 \$10,000 \$1,180,546 \$150,000 \$150,000 \$150,000 \$150,000 \$550,000
Professional/ Prefessional/ PERIODIC COSTS Leachaite Landfill Cas	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost. Contingency (30%). Subtotal: onal/Technical Services - Project Management (5%). Technical Services - O&M Technical Support (15%). Institutional Controls: Total Annual O&M Cost:  (Extraction/Pretreatment System Decommissioning Collection System Decommissioning Monitoring Network Decommissioning Extraction System Decommissioning Monitoring Network Decommissioning Subtotal Decommissioning Subtotal Decommissioning Cost Contingency (30%).	\$35,000 \$56,000 \$25,000 not included not included not included \$150,000 \$10,000 \$525,000 \$1,57,500 \$682,500 \$34,125 \$102,375 \$100,000 \$890,425 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$400,000 \$120,000	\$150,000 \$35,000 \$50,000 \$50,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$43,000 \$10,000 \$10,000 \$10,000 \$10,000 \$50,000 \$100,000 \$50,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000	\$40,000 \$50,000 \$25,000 not included not included \$150,000 \$150,000 \$159,000 \$489,000 \$34,450 \$103,350 \$100,000 \$589,810 \$150,000 \$100,000 \$50,000 not included \$100,000 \$400,000 \$120,000	\$150,000 \$40,000 \$20,000 \$25,000 \$25,000 \$75,000 \$150,000 \$150,000 \$150,000 \$45,370 \$136,110 \$10,000 \$1,180,546 \$150,000 \$100,000 \$50,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000
Professional/ Professional/ PERIODIC COSTS Leachate Landfill Cas Groundwater	Off-Site Disposal Collection and Flaring Monitoring Extraction System Prefreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost. Contingency (30%): Subtotal: onal/Technical Services - Project Management (5%): Technical Services - O&M Technical Support (15%): Institutional Controls: Total Annual O&M Cost:  (Collection System Decommissioning Extraction/Pretreatment System Decommissioning Extraction System Decommissioning Extraction System Decommissioning Subtotal Decommissioning Contingency (30%): Subtotal:	\$35,000 \$56,000 \$25,000 not included not included not included s150,000 \$10,000 \$525,000 \$157,500 \$682,500 \$34,125 \$102,375 \$510,000 \$890,425 \$150,000 \$100,000 \$100,000 \$100,000 \$400,000 \$100,000 \$520,000	\$150,000 \$35,000 \$50,000 \$25,000 \$25,000 \$50,000 \$75,000 \$43,000 \$150,000 \$100,000 \$100,000 \$50,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000	\$40,000 \$50,000 \$55,000 not included not included \$150,000 \$10,000 \$530,000 \$159,000 \$54,450 \$100,000 \$589,810 \$150,000 \$100,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000	\$150,000 \$40,000 \$50,000 \$25,000 \$25,000 \$75,000 \$150,000 \$150,000 \$150,000 \$45,370 \$45,370 \$136,110 \$10,000 \$1,180,546 \$10,000 \$100,000 \$50,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000
Groundwater  Professional/ Professional/ PERIODIC COSTS	Off-Site Disposal Collection and Flaring Monitoring Extraction System Pretreatment System (incremental to leachate) Off-Site Disposal Monitoring Monitoring Monitoring Well Maintenance Sublotal Annual O&M Cost. Contingency (30%). Subtotal: onal/Technical Services - Project Management (5%). Technical Services - O&M Technical Support (15%). Institutional Controls: Total Annual O&M Cost:  (Extraction/Pretreatment System Decommissioning Collection System Decommissioning Monitoring Network Decommissioning Extraction System Decommissioning Monitoring Network Decommissioning Subtotal Decommissioning Subtotal Decommissioning Cost Contingency (30%).	\$35,000 \$56,000 \$25,000 not included not included not included \$150,000 \$10,000 \$525,000 \$1,57,500 \$682,500 \$34,125 \$102,375 \$100,000 \$890,425 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$400,000 \$120,000	\$150,000 \$35,000 \$50,000 \$50,000 \$50,000 \$75,000 \$43,000 \$150,000 \$10,000 \$43,000 \$10,000 \$10,000 \$10,000 \$10,000 \$50,000 \$100,000 \$50,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000	\$40,000 \$50,000 \$25,000 not included not included \$150,000 \$150,000 \$159,000 \$489,000 \$34,450 \$103,350 \$100,000 \$589,810 \$150,000 \$100,000 \$50,000 not included \$100,000 \$400,000 \$120,000	\$150,000 \$40,000 \$50,000 \$25,000 \$25,000 \$75,000 \$150,000 \$150,000 \$150,000 \$45,370 \$13,6110 \$10,000 \$1,180,546 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000

Notes

Decommissioning and Remedial Action Report costs occur at Year 30. 5-Year review costs occur at Years 5, 10, 15, 20, and 25. Includes 30% contingency.

#### SUMMARY OF ESTIMATED CATTEAL, ANNUAL QM, AND PERIODIC COSTS (LEACHATE/GROUNDWATER TAD) SCENARIO, 0% AGENCY OVERSIGHT) NORTH SANITARY LANDFILL DAYTON, OBIO

Page 3 of 4

	Alternative No.:	2s	2Ь	. 3a	3Ъ
	Disposal Area 1, 2, 3, 5 Cap.	SW Cap	SW Cap	Atternate SW Cap	Alternate SW Cap
	Groundwater.	Monitoring	Extraction	Monitoring	Extraction
Environmental Media	Process Options				
APITAL COSTS	Disposal Area 4 Waste Relocation	\$1,537,080	\$1,537,080	\$1,537,080	\$1,537,080
Vaste and	Disposal Area 4 Post-Excavation Sampling	\$25,000	\$25,000	\$25,000	\$25,000
PBWA Soil	OPBWA Waste and Soil Consolidation	\$7,650	\$7,650	\$7,650	\$7,650
	OPBWA Post-Excavation Sampling	\$2,000	\$2,000	\$2,000	\$2,900
	Cap Disposal Areas 1, 2, 3, 5	\$9,840,217	\$9,840,217	\$6,645,923	\$6,645,923
	Stormwater Management Facilities	\$250,000	\$250,000	\$250,000	\$250,000
-	Valleycrest Drive Re-Opening	\$180,750	\$180,750	\$180,750	\$180,750
VAPL.	Recovery Systems at NSL-54L and NSL-55L	\$25,000	\$25,000	\$25,000	\$25,000
earhate	Extraction System	\$794,750	\$794,750	\$794,750	\$794,750
Esther	Collection Tank	\$50,000	\$50,000	\$50,000	\$50,000
andfill Gas	Collection and Monitoring System	\$764,000	\$764,000	\$764,000	\$764,000
	Bnergy Recovery Devices	not included	not included	not included	not included
Loundwater	Monitoring Network Expansion	\$150,000	\$150,000	\$150,000	\$150,000
	Extraction System	not included	\$276,000	not included	\$276,000
	Collection Tank (incremental to leachate)	not included	\$75,000	not included	\$75,000 \$10,783,153
	Subtotal Capital Cost:	\$13,626,447	\$13,977,A47	\$10,432,153	
	Contingency (30%):	\$4,087,934	\$4,193,234	\$3,129,646	\$3,234,946
	Subtotal:	\$17,714,381	\$18,170,681	\$13,561,799	\$14,018,099
The forei	ional/Technical Services - Project Management (5%):	\$885,719	\$908,534	\$678,090	\$700,905
riolessi	ressional/Technical Services - Remedial Design (6%):	\$1,062,863	\$1,090,241	\$813,708	\$841,086
Prox	messional recipies Commenter Management (6%):	\$1,062,863	\$1,090,241	\$813,708	\$841,086
Professional/	Technical Services - Construction Management (6%):	\$25,000	\$25,000	\$25,000	\$25,000
			41.0/000	·	·
	Institutional Controls:  Total Capital Cost:	\$20,750,826	521,284,697	\$15,892,305	\$16,426,176
	Total Capital Cost:	\$25,000	\$25,080	\$25,000	\$25,000
	Total Capital Cost: COSTS Cap	\$725,000 \$25,000	\$25,000 \$25,000	\$25,000 \$25,000	\$25,000 \$25,000
Waste	Total Capital Cost:	\$25,000 \$25,000 \$5,000	\$25,000 \$25,000 \$5,000	\$25,000 \$25,000 \$5,000	\$25,000 \$25,000 \$5,000
Waste NAPL	Total Capital Cost:  CSTS Cap Stormwater Management Pacilities Monitoring/Removal Extraction System	\$25,000 \$25,000 \$5,000 \$50,000	\$25,000 \$25,000 \$6,000 \$50,000	\$25,000 \$25,000 \$5,000 \$50,000	\$25,000 \$25,000 \$5,000 \$50,000
Waste NAPL Leachair	Total Capital Cost:  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360	\$25,080 \$25,000 \$6,000 \$50,000 \$1,629,360	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280
Waste NAPL Leachair	Total Capital Cost:  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$50,000	\$25,000 \$25,000 \$6,000 \$59,000 \$1,629,360 \$60,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000
Waste NAPL Leachair	Total Capital Cost:  Cap Stormwater Management Facilities Monitoring Removal Extraction System Off-Site T&D Collection and Flaring Monitoring	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$50,000 \$25,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$80,000 \$25,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000
Waste NAPL Leachair Landfill Gas	Total Capital Cost:  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring	\$25,000 \$25,000 \$5,000 \$1,629,360 \$50,000 \$25,000 mot included	\$25,080 \$25,000 \$5,000 \$59,000 \$1,629,360 \$60,000 \$25,000 \$50,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 not included	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$50,000 \$50,000
Waste NAPL Leachair Landfill Gas	Total Capital Cost:  Cap Stormwater Management Facilities Monitoring Removal Extraction System Off-Site T&D Collection and Flaring Monitoring	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$50,000 \$25,000 mot included not included	\$25,080 \$25,000 \$5,000 \$59,000 \$1,629,360 \$60,000 \$25,000 \$21,54,960	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 not included not included	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$60,000 \$2,154,960
Waste NAPL Leachair Landfill Gas	Total Capital Cost:  Cap Stormwater Management Facilities Monitoring, Removal Extraction System Off Site T&D Collection and Flaring Monitoring Extraction System	\$25,000 \$25,000 \$5,000 \$56,000 \$1,629,360 \$50,000 \$25,000 not included not included	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$60,000 \$25,000 \$50,000 \$2,154,960 \$150,000	\$75,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 at included not included \$150,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$60,000 \$2,154,960 \$150,000
Waste NAPL Leachair Landfill Gas	Total Capital Cost:  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D  Collection and Flaring Monitoring Extraction System Off-Site T&D  Off-Site T&D  Monitoring Monitoring	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$50,000 \$25,000 mot included not included	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$60,000 \$25,000 \$50,000 \$2,154,960 \$150,000	\$25,000 \$25,000 \$5,000 \$1,997,280 \$50,000 \$25,000 not included not included \$150,000 \$10,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$00,000 \$2,154,960 \$150,000
Waste NAPL Leachair Landfill Gas	Total Capital Cost:  Cap  Stormwater Management Facilities  Monitoring, Removal  Extraction System  Off-Site T&D  Collection and Plaring  Monitoring  Extraction System  Off-Site T&D	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$50,000 \$25,000 not included not included \$150,000 \$11,000	\$25,000 \$25,000 \$6,000 \$50,000 \$1,629,360 \$60,000 \$25,000 \$2,154,960 \$150,000 \$10,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 at included not included not included \$150,000 \$10,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$60,000 \$2,154,960 \$150,000 \$10,000
Waste NAPL Leachair Landfill Gas	Total Capital Cost:  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring	\$25,000 \$25,000 \$5,000 \$1,629,360 \$50,000 \$25,000 not included not included 5150,000 \$11,969,360 \$59,808	\$25,080 \$25,000 \$5,000 \$50,000 \$1,629,360 \$60,000 \$25,000 \$21,54,960 \$150,000 \$4,174,320 \$1,252,296	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$60,000 \$25,000 not included not included \$150,000 \$10,000 \$2,337,280 \$701,184	\$25,000 \$25,000 \$5,000 \$1,997,280 \$50,000 \$25,000 \$21,54,960 \$150,000 \$4,542,240 \$1,362,672
Waste NAPL Leachate Landfill Gas Groundwater	Total Capital Cost:  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Monitoring Monitoring Monitoring Monitoring Monitoring Monitoring Contingency (30%): Subtotal	\$25,000 \$25,000 \$5,000 \$1,629,360 \$50,000 \$55,000 mot included not included 5150,000 \$10,000 \$1,969,360 \$590,808 \$2,560,168	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$60,000 \$25,000 \$50,000 \$2,154,960 \$150,000 \$11,000 \$4,174,320 \$1,252,296 \$6,426,616	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$2,337,280 \$701,184	\$25,000 \$25,000 \$5,000 \$1,997,280 \$50,000 \$50,000 \$2,154,960 \$150,000 \$10,000 \$4,542,240 \$1,362,672 \$5,904,912
Waste  NAFI.  Leachate  Landfill Gas  Groundwater  Profess	Total Capital Cost:  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Monitoring Monitoring Well Maintenance Subtotal Annual O&M Cost: Contingency (30%): Subtotal.	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$1,969,360 \$2,560,168 \$128,008	\$25,000 \$25,000 \$50,000 \$50,000 \$1,629,360 \$50,000 \$25,000 \$50,000 \$2,154,960 \$150,000 \$4,174,320 \$1,252,296 \$5,426,616 \$271,331	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923	\$25,000 \$25,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$22,154,960 \$150,000 \$10,000 \$4,542,240 \$1,362,672 \$5,904,912
Waste  NAFI.  Leachate  Landfill Gas  Groundwater  Profess	Total Capital Cost:  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Monitoring Monitoring Well Maintenance Subtotal Annual O&M Cost: Contingency (30%): Subtotal.	\$25,000 \$25,000 \$5,000 \$1,629,360 \$50,000 \$55,000 mot included not included 5150,000 \$10,000 \$1,969,360 \$590,808 \$2,560,168	\$25,000 \$25,000 \$6,000 \$50,000 \$1,629,360 \$50,000 \$25,000 \$2,154,960 \$150,000 \$11,74,320 \$1,74,320 \$1,252,296 \$6,426,616 \$271,331 \$813,992	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770	\$25,000 \$25,000 \$5,000 \$1,997,280 \$50,000 \$25,000 \$25,000 \$2,154,960 \$150,000 \$10,000 \$4,542,240 \$1,362,672 \$5,904,912 \$295,246 \$885,737
Waste  NAFI.  Leachate  Landfill Gas  Groundwater  Profess	Total Capital Cost:  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Monitoring Monitoring Monitoring Monitoring Monitoring Monitoring Contingency (30%): Subtotal	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$1,969,360 \$2,560,168 \$128,008	\$25,000 \$25,000 \$50,000 \$50,000 \$1,629,360 \$50,000 \$25,000 \$50,000 \$2,154,960 \$150,000 \$4,174,320 \$1,252,296 \$5,426,616 \$271,331	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 not included not included \$150,000 \$1,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$60,000 \$150,000 \$150,000 \$1,362,672 \$5,904,912 \$2,904,912 \$2,905,246 \$885,737 \$10,000
Waste  NAPL  Leachate  Landfill Gas  Groundwater  Profess	Total Capital Cost:  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Monitoring Monitoring Monitoring Well Maintenance Subtotal Annual O&M Cost: Contingency (30%): Subtotal Sional/Technical Services - Project Management (5%): //Technical Services - O&M Technical Support (15%):	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$50,000 \$25,000 not included not included 5150,000 \$10,000 \$1,969,360 \$590,808 \$2,560,168 \$128,008	\$25,000 \$25,000 \$6,000 \$50,000 \$1,629,360 \$50,000 \$25,000 \$2,154,960 \$150,000 \$11,74,320 \$1,74,320 \$1,252,296 \$6,426,616 \$271,331 \$813,992	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770	\$25,000 \$25,000 \$5,000 \$1,997,280 \$50,000 \$25,000 \$25,000 \$2,154,960 \$150,000 \$10,000 \$4,542,240 \$1,362,672 \$5,904,912 \$295,246 \$885,737
Wante NAPL Leachate Landfill Gas Groundwater  Profess Professional	Costs  Cap Stormwater Management Facilities Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Factor Subtotal Arenual O&M Cost Contingency (30%): Subtotal Sional/Technical Services - Project Management (5%): //Technical Services - O&M Technical Support (15%): Institutional Controls: Total Annual O&M Cost	\$25,000 \$25,000 \$5,000 \$1,629,360 \$25,000 sot included not included not included \$150,000 \$11,000 \$1,969,360 \$590,808 \$2,560,168 \$128,008 \$384,025 \$10,000	\$25,000 \$25,000 \$5,000 \$1,629,360 \$1,629,360 \$50,000 \$2,154,960 \$150,000 \$1,74,320 \$1,252,296 \$5,426,616 \$271,331 \$813,992 \$10,000	\$25,000 \$25,000 \$5,000 \$1,997,280 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000 \$3,656,157	\$25,000 \$52,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$22,154,960 \$150,000 \$10,000 \$4,542,240 \$1,362,672 \$5,904,912 \$295,246 \$885,737 \$10,000 \$7,095,894
Wante NAPL Leachaire Landfill Gas Groundwater  Profess Professional	Cap Stormwater Management Facilities Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Mo	\$25,000 \$25,000 \$5,000 \$1,629,360 \$25,000 sot included not included not included \$150,000 \$11,000 \$1,969,360 \$590,808 \$2,560,168 \$128,008 \$384,025 \$10,000	\$25,000 \$25,000 \$5,000 \$1,629,360 \$1,629,360 \$50,000 \$2,154,960 \$150,000 \$1,74,320 \$1,252,296 \$5,426,616 \$271,331 \$813,992 \$10,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 not included not included \$150,000 \$1,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000	\$25,000 \$5,000 \$5,000 \$1,997,280 \$50,000 \$25,000 \$2,154,960 \$150,000 \$10,000 \$4,542,240 \$1,362,672 \$5,904,912 \$795,246 \$885,737 \$10,000 \$7,095,894
Wante NAPL Leachate Landfill Gas Groundwater  Profess Professional	Cap Stormwater Management Facilities Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Monitoring Monitoring Monitoring Monitoring Monitoring Well Maintenance Subtotal Annual O&M Cost: Contingency (30%): Subtotal J'Technical Services - O&M Technical Support (15%): Institutional Controls: Total Annual O&M Cost Total Annual O&M Cost  S'  Extraction/Tank System Decommaissioning	\$25,000 \$25,000 \$5,000 \$1,629,360 \$50,000 \$25,000 not included not included 5150,000 \$10,000 \$1,969,360 \$590,808 \$2,560,168 \$128,008 \$384,025 \$10,000 \$3,082,202	\$25,000 \$25,000 \$50,000 \$50,000 \$1,629,360 \$50,000 \$25,000 \$50,000 \$2,154,960 \$1150,000 \$4,174,320 \$1,252,296 \$5,426,616 \$271,331 \$813,992 \$10,000 \$6,521,939	\$25,000 \$25,000 \$5,000 \$1,997,280 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000 \$3,656,157	\$25,000 \$52,000 \$50,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$2,154,960 \$150,000 \$4,542,240 \$1,362,672 \$5,904,912 \$295,246 \$885,737 \$10,000 \$7,095,894
Wante NAPL Leachaire Landfill Gas Groundwater  Profess Professional	Cap Stormwater Management Facilities Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Subtotal Subtota	\$25,000 \$25,000 \$5,000 \$1,629,360 \$50,000 \$1,629,360 \$50,000 \$25,000 not included not included \$150,000 \$11,969,360 \$590,808 \$2,560,168 \$128,008 \$384,025 \$10,000 \$3,082,202	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$50,000 \$25,000 \$2,154,960 \$1150,000 \$1,74,320 \$1,74,320 \$1,252,296 \$5,426,616 \$271,331 \$813,992 \$10,000 \$6,521,939	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 not included not included \$150,000 \$10,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000 \$3,656,157	\$25,000 \$5,000 \$5,000 \$1,997,280 \$50,000 \$25,000 \$2,154,960 \$150,000 \$10,000 \$4,542,240 \$1,362,672 \$5,904,912 \$795,246 \$885,737 \$10,000 \$7,095,894
Wante NAPL Leachate Landfill Gas Groundwater  Professional PERIODIC COST Leachate Landfill Gas	Costs  Cap Stormwater Management Facilities Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Total Armual O&M Cost Contingency (30%): Subtotal: Subtotal Armual O&M Cost Institutional Controls: Total Annual O&M Cost  Extraction/Tank System Decommissioning Collection System Decommissioning Monitoring Network Decommissioning	\$25,000 \$25,000 \$5,000 \$5,000 \$5,000 \$1,629,360 \$55,000 sot included not included \$150,000 \$11,000 \$1,969,360 \$590,808 \$2,560,168 \$128,008 \$384,025 \$10,000 \$3,082,202	\$25,000 \$25,000 \$5,000 \$1,629,360 \$80,000 \$25,000 \$2,154,960 \$150,000 \$1,74,320 \$1,252,296 \$5,426,616 \$271,331 \$813,992 \$10,000 \$6,521,939	\$25,000 \$5,000 \$5,000 \$5,000 \$1,997,280 \$50,000 not included not included \$150,000 \$18,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000 \$3,656,157	\$25,000 \$55,000 \$5,000 \$1,997,280 \$50,000 \$25,000 \$25,000 \$2,154,960 \$150,000 \$110,000 \$4,542,240 \$1,362,672 \$5,904,912 \$295,246 \$885,737 \$10,000 \$7,095,894
NAPL Leachate Landfill Gas Groundwater  Professional PERNODIC COST Leachate Landfill Cas	Costs  Cap Stormwater Management Facilities  Monitoring/Removal Extraction System Off-Site T&D  Collection and Flaring Monitoring Extraction System Off-Site T&D  Collection and Flaring Monitoring Extraction System Off-Site T&D  Monitoring Monitoring Monitoring Well Maintenance  Subtotal Annual O&M Cost Contingency (30%): Subtotal Stonal/Technical Services - Project Management (5%): // Technical Services - O&M Technical Support (15%): Institutional Controls: Total Annual O&M Cost  Struction System Decommissioning  Extraction System Decommissioning  Extraction System Decommissioning  Extraction System Decommissioning	\$25,000 \$25,000 \$5,000 \$5,000 \$5,000 \$5,000 \$1,629,360 \$25,000 \$25,000 ant included not included \$150,000 \$1,949,360 \$590,808 \$2,560,168 \$128,008 \$384,025 \$10,000 \$3,082,202	\$25,000 \$25,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$25,000 \$25,000 \$5,000 \$150,000 \$1,50,000 \$1,74,320 \$1,252,296 \$5,426,616 \$271,331 \$813,992 \$10,000 \$6,571,939	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 not included not included \$150,000 \$18,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000 \$3,656,157	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$2,154,960 \$150,000 \$10,000 \$4,542,240 \$1,362,672 \$5,904,912 \$795,246 \$885,737 \$10,000 \$7,095,894
Wante NAPL Leachate Landfill Gas Groundwater  Professional PERIODIC COST Leachate Landfill Gas	Cap Stormwater Management Facilities Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Subtotal S	\$25,000 \$25,000 \$5,000 \$5,000 \$5,000 \$1,629,360 \$50,000 \$25,000 mot included not included \$150,000 \$1,949,360 \$590,808 \$2,560,168 \$128,008 \$384,025 \$10,000 \$3,082,202	\$25,000 \$25,000 \$50,000 \$1,629,360 \$50,000 \$25,000 \$25,000 \$10,000 \$1,154,960 \$11,50,000 \$4,174,320 \$1,252,296 \$5,426,616 \$271,331 \$813,992 \$10,000 \$6,521,939	\$25,000 \$25,000 \$5,000 \$5,000 \$1,997,280 \$50,000 not included not included \$150,000 \$10,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000 \$3,656,157	\$25,000 \$52,000 \$50,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$2,154,960 \$150,000 \$4,542,240 \$1,362,672 \$5,904,912 \$795,246 \$885,737 \$10,000 \$7,095,894
Wante NAPL Leachate Landfill Gas Groundwater  Professional PERIODIC COST Leachate Landfill Gas	Cap Stormwater Management Facilities Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Subtotal Institutional Controls: Total Annual O&M Cost  State  Extraction/Tank System Decommissioning Collection System Decommissioning Monitoring Network Decommissioning Extraction System Decommissioning Monitoring Network Decommissioning Monitoring Network Decommissioning Cost	\$25,000 \$25,000 \$5,000 \$5,000 \$5,000 \$1,629,360 \$50,000 \$1,629,360 sot included not included 5150,000 \$1,969,360 \$59,008 \$2,560,168 \$128,008 \$384,025 \$10,000 \$3,082,202	\$25,000 \$25,000 \$5,000 \$50,000 \$1,629,360 \$50,000 \$25,000 \$2,154,960 \$1150,000 \$11,252,296 \$5,426,616 \$271,331 \$813,992 \$10,000 \$6,521,939 \$150,000 \$100,000 \$100,000 \$100,000 \$50,000 \$100,000	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 not included not included \$150,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$16,000 \$3,656,157	\$25,000 \$52,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$25,000 \$2,154,960 \$150,000 \$10,000 \$4,542,240 \$1,362,672 \$5,904,912 \$795,246 \$885,737 \$10,000 \$7,095,894
Waste NAPL Leachate Landfill Gas Groundwater  Profess Professional	Cap Stormwater Management Facilities Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Subtotal Annual O&M Cost Contingency (30%): Subtotal Annual O&M Cost Subtotal Annual O&M Cost Total Annual O&M Cost Total Annual O&M Cost  Extraction/Tank System Decommissioning Collection System Decommissioning Monitoring Network Decommissioning Extraction System Decommissioning Monitoring Network Decommissioning Subtytal Decommissioning Cost Contingency (30%):	\$25,000 \$25,000 \$5,000 \$5,000 \$5,000 \$1,629,360 \$50,000 \$1,629,360 \$550,000 wot included not included \$10,000 \$1,969,360 \$590,808 \$2,560,168 \$128,008 \$384,025 \$10,000 \$3,082,202 \$150,000 \$100,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000	\$25,000 \$25,000 \$50,000 \$1,629,360 \$50,000 \$250,000 \$2,154,960 \$150,000 \$1,74,320 \$1,252,296 \$6,426,616 \$271,331 \$813,992 \$10,000 \$6,521,939 \$150,000 \$100,000 \$100,000 \$100,000 \$150,000 \$150,000 \$150,000 \$150,000	\$25,000 \$5,000 \$5,000 \$5,000 \$1,997,280 \$50,000 not included not included \$150,000 \$18,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000 \$3,656,157	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$2,154,960 \$150,000 \$1,542,240 \$1,362,672 \$5,904,912 \$295,246 \$885,737 \$10,000 \$7,095,894
Wante NAPL Leachate Landfill Gas Groundwater  Professional PERIODIC COST Leachate Landfill Gas	Cap Stormwater Management Facilities Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Subtotal Institutional Controls: Total Annual O&M Cost  State  Extraction/Tank System Decommissioning Collection System Decommissioning Monitoring Network Decommissioning Extraction System Decommissioning Monitoring Network Decommissioning Monitoring Network Decommissioning Cost	\$25,000 \$25,000 \$5,000 \$5,000 \$5,000 \$1,629,360 \$55,000 sot included not included 150,000 \$11,000 \$1,969,360 \$590,808 \$2,560,168 \$128,008 \$384,025 \$10,000 \$3,082,202	\$25,000 \$25,000 \$5,000 \$5,000 \$1,629,360 \$50,000 \$25,000 \$2,154,960 \$150,000 \$1,74,320 \$1,252,296 \$6,426,616 \$271,331 \$813,992 \$10,000 \$6,521,939 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000	\$25,000 \$25,000 \$5,000 \$5,000 \$1,997,280 \$50,000 not included not included \$150,000 \$1,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000 \$3,656,157 \$150,000 \$100,000 \$50,000 \$100,000 \$400,000 \$120,000 \$520,000	\$25,000 \$25,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$25,000 \$2,154,960 \$150,000 \$10,000 \$4,542,240 \$1,362,672 \$5,904,912 \$295,246 \$885,737 \$10,000 \$7,095,894 \$150,000 \$150,000 \$150,000 \$150,000 \$150,000 \$1550,000 \$1550,000
Professional PERIODIC COST Leachate Landfill Cas	Cap Stormwater Management Facilities Monitoring/Removal Extraction System Off-Site T&D Collection and Flaring Monitoring Extraction System Off-Site T&D Monitoring Subtotal Annual O&M Cost Contingency (30%): Subtotal Annual O&M Cost Subtotal Annual O&M Cost Total Annual O&M Cost Total Annual O&M Cost  Extraction/Tank System Decommissioning Collection System Decommissioning Monitoring Network Decommissioning Extraction System Decommissioning Monitoring Network Decommissioning Subtytal Decommissioning Cost Contingency (30%):	\$25,000 \$25,000 \$5,000 \$5,000 \$5,000 \$1,629,360 \$50,000 \$1,629,360 \$550,000 wot included not included \$10,000 \$1,969,360 \$590,808 \$2,560,168 \$128,008 \$384,025 \$10,000 \$3,082,202 \$150,000 \$100,000 \$500,000 \$500,000 \$500,000 \$500,000 \$500,000	\$25,000 \$25,000 \$50,000 \$1,629,360 \$50,000 \$250,000 \$2,154,960 \$150,000 \$1,74,320 \$1,252,296 \$6,426,616 \$271,331 \$813,992 \$10,000 \$6,521,939 \$150,000 \$100,000 \$100,000 \$100,000 \$150,000 \$150,000 \$150,000 \$150,000	\$25,000 \$5,000 \$5,000 \$5,000 \$1,997,280 \$50,000 not included not included \$150,000 \$18,000 \$2,337,280 \$701,184 \$3,038,464 \$151,923 \$455,770 \$10,000 \$3,656,157	\$25,000 \$25,000 \$5,000 \$50,000 \$1,997,280 \$50,000 \$25,000 \$2,154,960 \$150,000 \$1,542,240 \$1,362,672 \$5,904,912 \$295,246 \$885,737 \$10,000 \$7,095,894

Notes

<sup>&</sup>lt;sup>1</sup>Decommissioning and Remedial Action Report costs occur at Year 30. 5-Year review costs occur at Years 5, 10, 15, 20, and 25. Includes 30% contingency.